

Title (en)
HORN SWITCH

Publication
EP 0118414 A3 19870204 (DE)

Application
EP 84890020 A 19840124

Priority
AT 36183 A 19830203

Abstract (en)
[origin: EP0118414A2] In horn switches, which have two horn electrodes, arranged in a V- shape with respect to one another, and arranged as the base for the switching arc, in the event of unavoidable shut-downs under overload, the switching arc can move out of a defined permissible burning region, can transfer itself onto other adjacent parts and damage them. To avoid such damage, in the case of horn switches for use in electrical networks with short-circuit or earth-protection shut-down by circuit breakers, an earthed third electrode for the switching arc is arranged on the defined boundary between a permissible and an impermissible burning region for the switching arc. When the switching arc moves out of the permissible burning region, it is transferred onto the third electrode where it causes an earth-short or a short- circuit, which is switched onto the higher-level circuit breaker in operation. <IMAGE>

IPC 1-7
H01H 33/04; **H01H 33/12**; **H01H 31/28**

IPC 8 full level
H01H 33/04 (2006.01); **H01H 33/12** (2006.01)

CPC (source: EP)
H01H 33/04 (2013.01); **H01H 33/121** (2013.01)

Citation (search report)
• [X] FR 2082641 A5 19711210 - MERLIN GERIN
• [X] DE 273895 C
• [A] DE 1105967 B 19610504 - BBC BROWN BOVERI & CIE
• [A] DE 1079733 B 19600414 - LICENTIA GMBH
• [A] DE 2505158 A1
• [A] ASEA JOURNAL, Band 49, Nr. 6, 1976, Seiten 137-140; W. PUCHER: "Arc monitor - a short-circuit protection for indoor switchgear"

Cited by
DE19704933B4; DE102014201809A1; EP2528078A1; EP3074998B1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0118414 A2 19840912; **EP 0118414 A3 19870204**; AT 376058 B 19841010; AT A36183 A 19840215; DK 46484 A 19840804; DK 46484 D0 19840202; NO 840384 L 19840806

DOCDB simple family (application)
EP 84890020 A 19840124; AT 36183 A 19830203; DK 46484 A 19840202; NO 840384 A 19840201